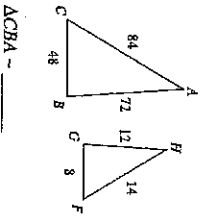
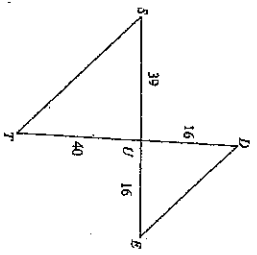


# Similar Triangles

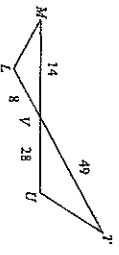
State if the triangles in each pair are similar. If so, state how you know they are similar and complete the similarity statement.

Name \_\_\_\_\_ Date \_\_\_\_\_ Period \_\_\_\_\_



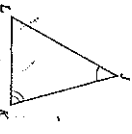
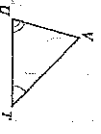
$\triangle CBA \sim$  \_\_\_\_\_

$\triangle UTS \sim$  \_\_\_\_\_



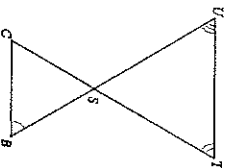
$\triangle VUT \sim$  \_\_\_\_\_

4)



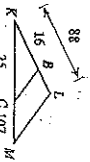
$\triangle KJL \sim$  \_\_\_\_\_

5)



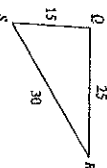
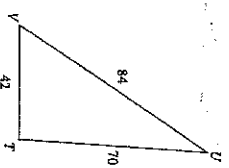
$\triangle STU \sim$  \_\_\_\_\_

6)



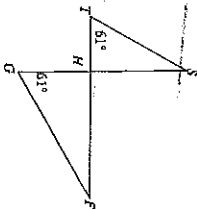
$\triangle KLM \sim$  \_\_\_\_\_

7)



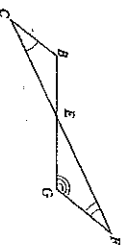
$\triangle TVU \sim$  \_\_\_\_\_

9)



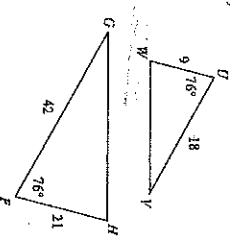
$\triangle HGF \sim$  \_\_\_\_\_

8)



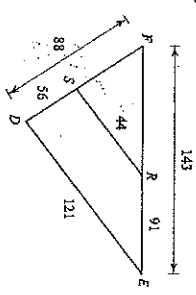
$\triangle BEG \sim$  \_\_\_\_\_

10)



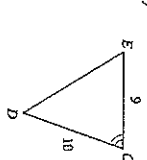
$\triangle FGH \sim$  \_\_\_\_\_

11)



$\triangle PED \sim$  \_\_\_\_\_

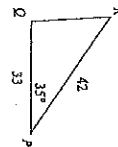
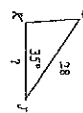
12)



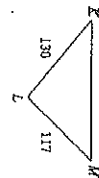
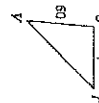
$\triangle UVV \sim$  \_\_\_\_\_

Find the missing length. The triangles in each pair are similar.

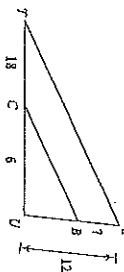
13)



14)



15)

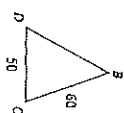
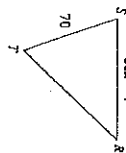


16)

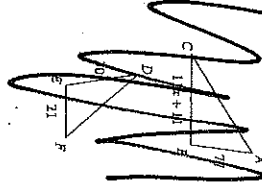


Solve for x. The triangles in each pair are similar.

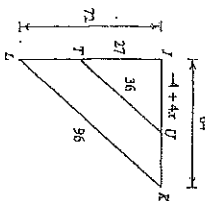
17)



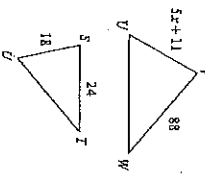
18)



19)



20)



Kuta Software - Infinite Geometry

Simplifying Square Roots

Simplify.

1)  $\sqrt{96}$

3)  $\sqrt{98}$

5)  $\sqrt{72}$

7)  $\sqrt{45}$

9)  $\sqrt{343}$

~~11)  $\sqrt{96}$~~

~~13)  $\sqrt{600}$~~

15)  $5\sqrt{180}$

17)  $2\sqrt{36}$

19)  $8\sqrt{27}$

21)  $3\sqrt{900}$

~~23)  $\sqrt{144}$~~

Name \_\_\_\_\_

Date \_\_\_\_\_

Period \_\_\_\_\_

~~25)  $\sqrt{144}$~~

4)  $\sqrt{18}$

6)  $\sqrt{144}$

8)  $\sqrt{175}$

10)  $\sqrt{12}$

~~12)  $\sqrt{243}$~~

14)  $5\sqrt{45}$

~~16)  $\sqrt{405}$~~

18)  $9\sqrt{125}$

~~20)  $\sqrt{144}$~~

~~22)  $\sqrt{144}$~~

24)  $2\sqrt{200}$